Saturday Workshop on Practice-Based Research in
The National Dental PBRN:

Connecting Clinical Researchers with Full-Time Practitioners for the Benefit of Both

Hosted by the Western Region of the National Network,
IADR/AADR General Session, March 23, Seattle, WA

Thanks to IADR for supporting the meeting
Workshop Agenda

- Welcome and Network Overview
- Breakout discussions sessions
  - Clinical researchers and faculty
  - Dental practitioners
- Roundtable discussion sessions
  - Critical topics in practice-based research
  - Developing a practice-based research study
  - Roundtable reports
- Meeting close
Learning objectives for CE credit

• Understand the role of practice-based research in the continuum of clinical health research;

• Understand the unique value that the practice-based research network context can make to oral health care delivery;

• Understand the elements of study design and implementation that are critical to research within the National Dental PBRN
Practice-based research is unique

Laboratory research  Clinical trials in academic settings  Practice-based research  Community-based research

Translation research

Bench  Bedside (efficacy  effectiveness)

Pragmatic trials

explanatory  pragmatic
Dental Practice-Based Research

- Dental PBR is...
  - Relevant to clinical practice
  - Done by practitioners
  - In offices within clinic flow

- Key to success: Collaboration
  - Balance research and practice

- NIDCR funded since 2005
  - DPBRN; NW PRECEDENT; PEARL
  - Expand evidence for decision-making
  - Improve dental-medical integration
  - Shorten time: knowledge → practice
“Research that works” = “win-win” for all

Research That Works: Dental PBRN

Patrick J. Foy, D.D.S.*

Rarely does scientific research translate readily into clinical dental practice in a timely manner. When I agreed to participate in a study as a Practitioner Investigator in the Dental Practice-Based Research Network (Dental PBRN), I went through an unexpected mental conversion, and I am now a very enthusiastic supporter. Initially, I was skeptically curious about such a program, reasoning that if it worked, it would mean nothing more than a bunch of dental researchers writing up studies not worth a damn.

practically into daily dental practice. The practice-based approach to research hopes to produce study results that will be accepted and more readily adopted by practicing dentists, and thereby improve our patients' oral health and add meaningfully to scientific evidence in a timelier manner.

The PBRN in which I participate is based in Birmingham at the University of Alabama and is one of the three funded by the National Institute for Dental and Craniofacial Research (NIDCR) of the National Institutes of Health (NIH). My research team is investigating the effectiveness of fluoride varnish.

A Day in the Life of One Dentist’s PBRN Participation

One study that I participated in was tracking “Why, when, and with what material would you as a dentist restore a previously unrestored tooth surface?” or, put another way, “What

Promoting Evidenced-based Dentistry through “The Dental Practice-Based Research Network”

Paul Benjamin, DMD, for the DPBRN Collaborative Group

General Practice, Miami, FL.

This article focuses on dental practice-based research networks (PBRNs) as one of the solutions to the oftentimes slow and inefficient process of translating research evidence into clinical practice. This article identifies two major issues that are faced when setting up a dental practice-based research network. Using a dental practice-based research network that the author is involved with as an example, this article then discusses what is involved in undertaking a research project in your office. Also discussed are the types of projects being done in this new setting and how this author believes these studies will be one of the bridges toward developing evidenced based dentistry in private practice.

Keywords: Practice Based Research Networks (PBRN), National Institutes of Health (NIH), National Institute Dental and Craniofacial Research (NIDCR), Dental Practice-Based Research Network (DPBRN).
Funding for the National Network

National Institute of Dental and Craniofacial Research (NIDCR) is the U.S. government’s lead agency for scientific research on oral, dental, and craniofacial health and disease. NIDCR is one of the National Institutes of Health.

- 7 years (2012-2019)*
- $66.8 million
  - Infrastructure
  - Individual studies
- Proj Officers: Drs. Don DeNucci & Dena Fischer

*Cooperative agreement U19-DE-22516
Network Leadership

• National Network Director
  – Gregg Gilbert

• Coordinating Center
  – James Korelitz, Director

• Northeast Region
  – Cyril Meyerowitz, Director
  – Dorota Kopycka-Kedzieraawski, Deputy Director

• Midwest Region
  – Brad Rindal, Director
  – Don Nixdorf, Deputy Director

• South Atlantic Region
  – Valeria Gordan, Director
  – Joe Riley III, Deputy Director

• South Central Region
  – Gregg Gilbert, Director
  – Sonia Makhija, Deputy Director

• Southwest Region
  – Tom Oates, Director
  – Rahma Mungia, Deputy Director

• Western Region
  – Jeffrey Fellows, Director
  – Dan Pihlstrom, Deputy Director
Regional Centers for the National Network

Western Region
Kaiser Permanente Center for Health Research

Midwest Region
HealthPartners Institute
For Education and Research

Northeast Region
University of Rochester
Rochester, New York

Southwest Region
University of Texas Health Science Center at San Antonio

South Central Region
University of Alabama at Birmingham

South Atlantic Region
University of Florida

*Coordinating Center: Westat, Inc., Rockville, MD
Executive Committee

South Central Region
Dr. George Allen
Mobile, AL

Northeast Region
Dr. William Calnon
Chili, NY

South Atlantic Region
Dr. George Ford
Atlanta, GA

Midwest Region
Dr. Vanessa Burton
Minneapolis, MN

Western Region
Dr. Walter Manning
Albany, OR

Southwest Region
Dr. Claudia Cavazos
Laredo, TX
The National Dental PBRN Goals

- Enroll 5K practitioners
  - Dentists, hygienists, EF hygienists
- Establish specialty interest groups
- Broad Practitioner engagement
  - Study ideas and development
  - Study conduct and analysis
  - Dissemination
- Conduct numerous national studies
- Hold regional and national meetings
- Engage professional and provider orgs
- Improve dental care and patient health
Progress toward Network goals

• Enrolled over 2,600 to-date
  – 1900 dentists; 500 hygienists

• Specialties & interest groups
  – Pediatrics (>80; Amy Kim, DDS)
  – Orthodontics (>80; Greg Huang, DDS)
  – >70 perio; >50 endo; >40 prosth

• Regional and national meetings
  – First regional meetings Oct ‘12–Mar ‘13
  – Western (Oct ‘12; Sept 27-28, ’13 in Seattle)
  – National Network meeting in 2014

• Studies in development
Engaging professional organizations and dental schools

- IADR/AADR, ADA, AAPD, AAE, ADEA, ADHA, AGD, NNOHA
  - Thanks to Christopher Fox and Leslie Zeck at IADR
- State and local dental and dental hygiene associations
  - Thanks to Washington State Dental and Dental Hygiene Associations
- State Primary Care Associations
- US dental schools
  - UW, OHSU, UMN, NYU, ...
- Links to provider groups, research networks

Purpose: extend reach of study development & dissemination
Western Regional Coordinators

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Contact information
Breakout sessions: engaging the network

Session I: Researchers and faculty
• Led by Jeff Fellows and Don Nixdorf
• Location: Room 3A

Session II: Dental Practitioners
• Led by Dan Pihlstrom and Walt Manning
• Location: Room 307

Reconvene at 2:15pm
## Roundtable sessions

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<thead>
<tr>
<th>Critical Topics in PBR</th>
<th>Develop a Sample Study</th>
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<tr>
<td>George Allen, DDS:</td>
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<td>Thomas Oates, DMD:</td>
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<td>Brad Rindal, DDS:</td>
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<td>Jeff Fellows, PhD:</td>
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<td>George Ford, DMD:</td>
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<td>Joseph Riley, PhD:</td>
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<td>Amy Kim, DDS:</td>
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Roundtable sessions

- Researchers and practitioners at each table

**Goals**
- Network: get to know each other
- Discuss research interests
- Examine critical issues for PBR
  - Patient recruitment and consent
  - Data collection w/in clinic flow
  - Managing follow-up visits

- Two strategies for achieving goals
  - Develop a “sample” study
  - Work though critical topics in PBRN studies

**Reconvene and report at 3:10pm**
More information and enrollment visit
www.nationaldentalpbrn.org